DOCUMENT RESUME

ED 387 084 IR 017 301

AUTHOR	Larkin, Jill H., Ed.; Chabay, Ruth W., Ed.
TITLE	Computer-Assisted Instruction and Intelligent Tutoring Systems: Shared Goals and Complementary Approaches. Technology in Education Series.
REPORT NO	ISBN-0-8058-0233-9
PUB DATE	92
NOTE	280p.
AVAILABLE FROM	Lawrence Erlbaum Associates, Inc., Publishers, 365 Broadway, Hillsdale, NJ 07462 (hardback: ISBN-0-8058-0232-0, $59.95; paperback: ISBN-0-8058-0233-9, $32.50).
PUB TYPE	Books (010) -- Collected Works - General (020)
EDRS PRICE	Document Not Available from EDRS.
DESCRIPTORS	*Computer Assisted Instruction; Computer Uses in Education; Educational Technology; Elementary Secondary Education; Expert Systems; *Intelligent Tutoring Systems; Programmed Tutoring; Teaching Methods; Tutorial Programs

ABSTRACT

The complementary, but distinct, approaches of computer assisted instruction (CAI) and intelligent tutoring systems (ITS) are first summarized, then followed by a collection of papers discussing shared issues toward which these complementary approaches are directed. The purpose of this book is to foster a mutual understanding of shared issues and complementary approaches so as to further powerful educational applications of computing. Chapters include: "The Design of Computer-Based Mathematics Instruction" (Sharon Dugdale); "From Syntax to Semantics in Foreign Language CAI" (Gerald R. Culley); "LISP Intelligent Tutoring System: Research in Skill Acquisition" (Albert T. Corbett and John R. Anderson); "Knowledge Representation and Explanation in GIL, An Intelligent Tutor for Programming" (Brian J. Resier, Daniel Y. Kimberg, Marsha C. Lovett, and Michael Ranney); "A Practical Guide for the Creation of Educational Software" (Ruth W. Chabay and Bruce A. Sherwood); "Realizing the Revolution: A Brief Case Study" (George Brackett); "SHERLOCK: A Coached Practice Environment for an Electronics Troubleshooting Job" (Alan Lesgold, Susanne Lajoie, Marilyn Bunzo, and Gary Eggan); and "From PROUST to CHIRON: ITS Design as Iterative Engineering; Intermediate Results Are Important!" (Warren Sack and Elliot Soloway). Includes an author index, program index, and subject index. (MAS)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****